

FIG. 1

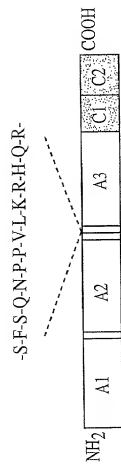


FIG. 2



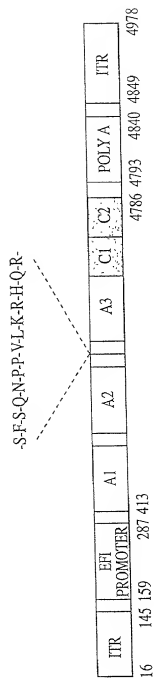


FIG. 4

FIG. 5A
FIG. 5B
FIG. 5C
FIG. 5D

FIG. 5

CAGCTGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGGCAAAGCCGGGCGCTGGGGCGACCTTTGGTCGCCCGGCCCTCAGT  
GAGCGAGCGAGCGCGCAGAGAGGAGTGGCCAACTCCATCAGTAGGGGTTCCTGCGGCCGCCAGGGAAATGTTTGTCTCTT  
AAATACCATCCAGGGAATGTTTGTCTTAAATACCATCCAGGGAATGTTTGTCTTAAATACCATCTACAGTTATTGGTT  
AAAGAAGTATATTAGAGCGAGTCTTTCTGCACACAGATCACCTTTCCGGGTGCCGCCCTAGGCAGGTAAGTGCCGTGTG  
TGGTTCGCCGGGCTGGCTCTTTACGGGTATGGCCCTTGCGTGCCTTGAAATTACTGACACTGACATCCACTTTTCT  
TTTTCTCCACAGGTATCGATTCCACCATGCAATAGAGCTCTCCACTGCTCTTTCTGTGCTCTTTGCGATTCTGCTTT  
AGTGCCACCAGAAGATACTACCTGGGTGCAGTGGAACTGTCTATGGGACTATATGCAAAAGTGATCTCGGTGAGCTGCCTGT  
GGACGCAAGATTTCCTCCTAGATGCCAAATCTTTCCATTCAACACCTCAGTCTGTACAAAAGACTCTGTTTGTAG  
AATTCACGGATCACCTTTTCAACATCGCTAAGCCAAAGGCCACCTGGATGGTCTGTCTAGGTCCTACCATCCAGGCTGAG  
GTTTATGATACAGTGGTCATTACACTTAAAGAACATGGCTTCCATCCTGTCAGTCTTCATGCTGTTGGTGTATCCTACTG  
GAAAGCTTCTGAGGGAGCTGAATATGATGATCAGACCAAGTCAAAGGGAGAAAAGATGATAAAGTCTTCCCTGGTGGAA  
GCCATACATATGTCTGGCAGGTCTTCAAAGAGATGTTCCAATGGCTCTGACCCACTGTGCTTACCTACTCATATCTTT  
TCTCATGTGGACCTGGTAAAGACTTGAATCAGGCCCTATTGGAGCCCTACTAGTATGTAGAGAAGGGAGTCTGGCCAA  
GGAAAAGACACAGACCTTGCACAAATTTATACTACTTTTGTCTGTTATTGATGAAGGGAAAAGTTGGCACTCAGAAACAA  
AGAACTCCTTGATG CAGGATAGGGATGCTGCATCTGCTCGGCCCTGGCCATAAATGCACACAGTCAATGGTTATGTAAC  
AGGTCTCTGCCAGGTCTGATTGGATGCCACAGGAATCAGTCTATTGGCATGTGATTGGAATGGGCACCACTCTGGAAGT  
GCACTCAATATTCTCGAAGGTACACATTTCTTGTGAGGAACCATCGCCAGGCGCTCTTGGAAATCTCGCCAATAACTT  
TCTTACTGCTCAACACTCTTGATGGACCTTGGACAGTTTCTACTGTTTGTGTCATATCTCTTCCCAACATGATGGC  
ATGGAAGCTTATGTCAAAGTAGACAGCTGTCCAGAGGAACCCAACTACGAATGAAAAATAATGAAGAAGCGGAAGACTA  
TGATGATGATCTTACTGATTCTGAAATGGATGTGGTCAGGTTTGATGATGACAACCTCTCCTTCTTTATCCAAATTCGCT  
CAGTTGCCAAGAAGCATCTAAACTTTGGGTACATTACATTGCTGCTGAAGAGGAGGACTGGGACTATGCTCCCTTAGTC  
CTCGCCCCCGATGACAGAAGTTATAAAGTCAATATTTGAACAATGGCCCTCAGCGGATGTTGTAGGAAGTACAAAAAAGT  
CCGATTTATGGCATAACAGATGAAACCTTTAAGACTCGTGAAGCTATTGAGTGAATCAGGAATCTTGGGACCTTTTAC  
TTTATGGGAAGTTGGAGACACACTGTTGATTATATTAAAGATCAAGCAAGCAGACCATATAACATCTACCTCCACGGA  
ATCACTGATGTCGCTCCTTTGTATTCAAGGAGATTACAAAAGGTGTAACAATTTGAAGGATTTTCCAAATCTGCCAGG  
AGAAATATTCAATATAAATGGACAGTGACTGTAGAAGATGGGCCAACTAAATCAGATCCTCGTGCCTGACCCGCTATT  
ACTCTAGTTTCTGTTAATATGGAGAGAGATCTAGCTCAGGACTCATTTGGCCCTCTCCTCATCTGCTCAAAAGAACTCTGTA  
GATCAAGAGGAAACAGATAATGTGACAGCAAGAGGAATGTCTCTGTTTCTGTATTTGATGAGAACCAGAACTGGTA  
CCTCACAGAGAATATACAACGCTTTCTCCCAATCCAGCTGGAGTGCAGCTTTGAGGATCCAGAGTTCCAAGCCTCCAACA  
TCATGCACAGCATCAATGGCTATGTTTTTGATAGTTTGCAAGTTGTGAGTTTGTGATGAGGTGGCACTATCTGTACATT  
CTAAGCATTTGGAGCACAGACTGACTTCTCTTCTCTCTCTGATATACCTTCAACACAAAAATGGTCTATGAAGA

FIG. 5A

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CACACTCACCTTATTCCCATTCTCAGGAGAACTGTCTTCATGTCGATGGAAAACCCAGGTCTATTGGATTCTGGGGTGCC  
 ACAACTCAGACTTTCGGAACAGAGGCATGACCGCTTACTGAAGTTTCTAGTTGTGACAAGAACACTGGTGATTATTAC  
 GAGGACAGTTATGAAGATATTTAGCATACTTGCTGAGTAAAAACAATGCCATTGAACCAAGAAGCTTCGAAATACTCG  
 TACTACTCTTCAGTCAGATCAAGAGGAAATTTGACTATGATGATACCATATCAGTTGAAATGAAGAAGGAGATTGTTGACA  
 TTTATGATGAGGATGAAATTCAGAGCCCCCGCAGCTTTCAAAGAAAAACAGCACATATTTTATTGCTGCAGTGGAGAGG  
 CTCTGGGATTATGGGATGAGTAGCTCCCCACATGTTCTAAGAAACAGGGCTCAGAGTGGCAGTGTCCCTCAGTTCAAGAA  
 AGTTGTTTTCCAGGAATTTACTGATGGCTCTTTACTCAGCCCTTATACCGTGGAAGACTAAATGAACATTTGGGACTCC  
 TGGGGCATATATAAGAGCAGAAGTTGAAGATAATATCATGTTGTAATTTAGAAATCAGGCCCTCGTCCCTATTCTCTC  
 TATTCTAGCCTTATTTCTTATGAGGAAGATCAGAGCAAGGAGCAGAACCTAGAAAAAACTTTGTCAAGCCTAATGAAC  
 CAAAATTTACTTTTGGAAATGCAACATCATATGGCACCCACTAAAGATGAGTTTGACTGCAAGACCTGGGCTATTCTCT  
 CTGATGTTGACCTGGAAAAAGATGTGCATCAGGCCGTGATTGGACCCCTTCGTGCTGCCACATAACACACTGAACCTT  
 GCTCATGGGAGACAAGTGACAGTACAGGAATTTGCTCTGTTTTTACCATCTTTGATGAGACCAAAAGCTGGTACTTCAC  
 TGAAAAATATGGAAGAAATCTGCAGGGCTCCCTGCAATATCCAGATGGAAGATCCCCTTTTAAAGAGAATTTATCGCTTCC  
 ATGCAATCAATGGCTACATATAATGGATACACTACCTGGCTTAGTAATGGCTCAGGATCAAAGGATTGATGGTATCTGCTC  
 AGCATGGGCAGCAATGAAAACATCCATTCTATTCAATTCAGTGGACATGTGTCACTGTACGAAAAAAGAGAGATATAA  
 AATGGCAGCTGTACAATCTCTATCAGGTGTTTTTGGAGACAGTGGAAATGTACCATCCAAAGCTGGAATTTGGCGGTGG  
 AATGCTTATTGGCGAGATCTACATGCTGGGATGAGCACATTTTTCTGGTGTACAGCAATAAGTGTACAGACTCCCTG  
 GGAATGGCTTCTGGACACATTAGAGATTTTCAGATTACAGCTTCAGGACAAATATGGACAGTGGGCCCCAAGCTGGCCAG  
 ACTTCATTATCCGGATCAATCAATGCCTGGAGCACCAGGAGCCCTTTCTTGGATCAAGGTGGATCTGTGGCACCAG  
 TGATATTTCAGCGCATCAAGACCCAGGTGCGCGTCAGAAAGTTCTCCAGCCTCTACATCTCTCAGTTTATCATCATGTAT  
 AGTCTTGATGGGAAGAAGTGGCAGACTTATCAGGAAATTCACCTGGAACCTTAATGGTCTCTTTTGGCAATGTGGATT  
 ATCTGGGATATAACACAAATATTTTAAACCTCCAATTATGCTCGATACATCGTTTGCACCCAACTCATTATAGCATTC  
 GCAGCATCTTTCGATGGAGTTGATGGGCTGTGATTTAAATAGTTGACAGCATGCCATTGGGAATGGAGAGTAAAGCAATA  
 TCAGATGCACAGATTACTGCTTCATCTACTTTACCAATATGTTTGGCACCTGGTCTCTTCAAAGCTCGACTTCACCT  
 CCAAGGAGGAGTAATGCTTGGAGACTCAGGTGAATAATCCAAAGAGTGGCTGCAAGTGGACTTCAGAAGACAATGA  
 AAGTCACAGGAGTAATCTACTCAGGAGTAAATCTCTGCTTACCAGCATGTATGTGAAGGAGTTCCTCATCTCCAGCAGT  
 CAAGATGGCCATCAGTGGACTCTCTTTTTTCAAGATGCAAAAGTAAAGTTTTTCAGGGAATCAAGACTCCTTCACACC  
 TGTGGTGAACCTCTTAGACCCACCGTTACTGACTCGTACCTTCGAATTACCCCCAGAGTTGGGTGCACCAAGATTGCC  
 TGAGGATGGAGTTCTTGGGCTGCGAGGACAGGACCTCTACTGACTCAGAAATAAAGATCAGAGCTCTAGAGATCTGTG  
 TCTTGGTTTTTTGTGTGCGCGCCGAGGAACCCCTAGTGATGGAGTTGGCCACTCCCTCTCTGCGCTCTCGTGGCTCACT  
 GAGCGCGGCGACCAAAGCTGCGCGAGCGCCGGCTTTGCGGGCGGCTCAGTGAAGCAGGAGCGCGCAGCTGCCT  
 GCAGGACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCC  
 GCCCCCTGACGAGCATCAAAAAATCGACGCTCAAGTCAGAGTGGCGAAACCCGACAGACTATAAAGATACACAGCG  
 TTTCCCCCTGGAAGCTTCTCGTGGCTCTCCTGTTCCGACCTGCCGCTTACCGGATACCTGTCCGCTTTCTCCCTTC  
 GGAAGCGTGGCGCTTCTCATAGCTACGCTGTAGGTATCTCAGTTTCGGTGTAGTGTGCTCGCTCAAAGCTGGGCTGTG  
 TGCACGAACCCCGCTTCAGCCCGAGCGCTGCGCTTATCCGGTAACATATCGCTTGAGTCCAAACCCGGTAAAGACACGAC  
 TTATCGCCACTGGCAGCAGCCACTGTGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTG  
 GTGGCTTAACACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAGAGAG  
 TTGTTAGTCTTGATCCGGCAACAAACACCGCTGTGAGCGTGTGTTTTTTGTTTGAAGCAGACAGATTACGCGCAGA  
 AAAAAAGGATCTCAAGAAGATCTTTGATCTTTTCTACGGGCTCTGACGCTCAGTGAACGAAAACTCAGCTTAAGGGAT

FIG. 5B

TTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCCTTTTAAATTAATAAGAGTTTAAATCAATCTAAAGTA  
TATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCTGTTCA  
TCCATAGTTGCCGTGACTCCCCGTCGTGATGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCTAATGAT  
ACCGCGAGACCCAGCTCACCAGCTCCAGATTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTC  
CTGCAACTTTATCCCGCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTGCCAGTTAATAGTTTG  
CGCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTACAGCTCGTCGTTGGTATGCTTCATTACAGCTCCGGTTCCCA  
ACGATCAAGGCGAGTTACAGATGATCCCCATGTTGTGCAAAAAAGCGGTTAGTCTCTCGTCTCCGATCGTTGTGCAGAA  
GTAAGTTGGCCGAGTGTATCACTCATGGTTATGGCAGCACTGCATAATCTCTTACTGTCTGCCATCCGTAAGATGC  
TTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTCAGAATAGTGTATGCGGGCAGCCAGTGTCTCTGGCCGGCGTC  
AATACGGGATAATACCGCGCCACATAGCAGAACTTAAAGTGCTCATCATTTGGAACCGTCTCTCGGGGCGAAAACTCT  
CAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAAACCACTCGTGCAACCACTGATCTTCAGCATCTTTTACTTTT  
ACCAGCGTTTCTGGTGAGCAAAAACAGGAAGCAAAAATGCCGCAAAAAGGCAACAGGAAATGTTGAAT  
ACTCATACTCTCTCTTTTCAATATATTATTGAAGCATTTATCAGGGTTATGTCTCATGAGCGGATACATATTTGAATGTA  
TTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCGAAAAGTGCCACCTGACGCTCAAGAAACATTATATC  
ATGACATTAACTTATAAAAATAGCGGTATCACGAGGCCCTTTCTGCTCGCGCTTTTCGGTGATGACGGTGAAACCTCTG  
ACATATGACAGTCCCGGAGACGGTCAAGCTTGTCTGTAAAGCGGATGCCGGGAGCAGACAAGCCCTGACGGCGCGCTGAG  
CGGGTGTGGCGGGTGTGGGGCTGGCTTAATATGCGGCATCAGACGAGATTGACTGAGAGTGACCATATAAAATGTGA  
AACGTTAATATTTTGTAAAAATTCGCGTTAAATTTTGTAAATCAGCTCATTTTGTAAATCAATAGGCCAAATGTCGCA  
AATCCCTATATAATCAAAAGATAATGACCGCAGATAGGGTTGAGTGTGTTCCAGTTTGGAACAAGAGTCCACTATTAAGA  
ACGTGGACTCCAACGTCAAAAGGGCGAAAAACCGTCTATCAGGGCGATGGGCCACTACGTGAACCATACCCAAATCAAGT  
TTTTTGGGGTCGAGGTGCCGTAAAGCACTAAATCGGAACCTTAAAGGAGCCCGGATTTAGAGCTTGACGGGGAAAGCC  
GGCGAACCTGTGGCGAGAAAGGAAGGAAGAAAGCGAAAGGAGCGGGCGCTAGGGCGCTGGCAAGTGAGCGGTACAGCTGC  
CGTAACCAACACACCGCCCGCGCTTAATGCGCCGCTACAGGGCGCTACTATGTTGCTTTGACGTATCGGTTGTGA  
TACCGCAGAGATGCGTAAAGGAGAAAAATACCGCATCAGGCCGTAACTGTGCGGATCACCGGAAAGCACCCGTAAAGTGATA  
ATGATTATCATCTACATATACACACGTGCGTGGAGGCCATAAACACGTCAAATAATCAATTATGACGACAGGTATCGTA  
TTAATTGATCTGCATCAACTTAACGTAAAAACAACCTCAGACAATACAATCAGCGACACTGAATACGGGCAACCTCAT  
GTCACGGAAGACAGAACCAGCAGAACACACCGCAACATCCGCTTTCTTAACCAATGATTGAACAAATTAACATCG  
CTCTTGAGCAAAAAGGGTCCGGGAATTTCTCAGCTGGGTTCATTGAAGCTGCGCTCGGAGACTAACGTCAGAAAAAGAGA  
GCATATACATCAATTAAGATGATGAAGATAAATCAACATCCCGGTTCTTCCTCCGACAGGACGATATTGTAATTCAC  
TAATTACGAGGCGATTGCAATATCTCAATATTTGAGTTGCAGTTTACACTTTTCTGAGTACAGGACGAGCTGCGGTGTGGCTCTGTCA  
CAGACTAAATAGTTTGAATGATTAGCAGTTATGGTGATCAGTCAACCACAGGGAATAATCCTTCATATTATTATCGTGC  
TTCACCAACGCTGCCCTCAATTGCTCTGAATGCTTCAGAGACACCTTATGTTCTATACATGCAATTACAACATCAGGTA  
ACTCATAGAAATGGTGCTATTAAGCATATTTTTTACAGCAATCAGATCCAGGAGGATCATCAGCAGATTGTTCTTTAT  
TCATTTTGTGCTCCATGCGCTTGCTCTTCATCTAGCGGTTAAAAATATTACTTCAAATCTTTCTGTATGAAGATTGAGC  
ACGTTGGCTTTACATACATCTGTGCGTTGTAATTTCCCTCCAGAAATGCCAGCAGGACCCGATTTGTTACGCAACCAATAC  
TATTAAGTGAACACATTTCTCAATATTTTGAATATTAATCATAAATCAACAAAAACAAAGGAGGTGAGACAGATTGAACGATAAA  
AACGATAATGCAAACTACGCGCCCTCGTATCAGATGGAAGGTTTTACCAATGGCTCAGTTGCCATTTTAAAGAAATAT  
TCGATCAAGTCGCAAAAGATTAGACTGTGAATGTTTTATTCTGAACATAAAAGCTCACAACGCTCACAATATATTATAC  
TATCTAGCCACAGATAATATTACATCTGTTGTAAGAAACGATAACACCGTGTAAATAAAGGACTTAAAGGTTGTAA  
TGTTAAATTTCAAGAAACAGCATCTTATAGAAACGCTTATGATAGTTGAAATCAAGAGAAATCAATTTACAGCAAT  
ACAGGGAATCTTGTCTAAAGCAGGAGTTTCCGATGGGTTACAAATATCCATGAACATAAAGATAATTACTATACCTTT

FIG. 5C

GATAATTCTACTATTCTACTGAGAGCATTCAGAACACTACACAAATCTTTCCACGCTAAATCATACGCTCCGGTTCTTT  
 CCGTGTGACGACCGGGGCGTTGGCATAATGCAATACGTGTACGCGCTAAACCTGTGTGCATCGTTTAAATTATTCCCGG  
 ACACCTCCCGCAGAGAAGTTCCCCGTCAGGGCTGTGGACATAGTTAATCCGGGAATACAATGACGATTATCATGCACCTGCAC  
 ATACATTATAAATATTAAACAATATGAAATTTCAACTCATTTGTTAGGGTTGTGTTAATTTCTACACATACGATTCTGTC  
 GAACTTCAAAAAGCATCGGGAATAACACCATTGAAAAAATGCTACTCGCTACTGCGCTGCGCTGCTTATTACAGGATGT  
 GCTCAACAGACGTTTACTGTTCAAAAACAAACCGGCAGCAGTAGCACCAAAGGAAACCATCACCCATCATTTCTTCGTTTC  
 TGGAAITGGGCAGAAAGAACTGTGCATGTCAGCCAAAATTTGTGGCGGCGCAGAAAATGTTGTAATAACAGAAACCCAGC  
 AAACATTCTGTAATGGATTGCTCGGTTTTATTACTTTAGGCATTTATACTCCGCTGGAAGCGCGTGTATTGCTCACAA  
 TAATTGCATGAGTTGCCCATCGCATATGGGCAACTCTATCTGCACTGCTCATTAAATACTTCTGGGTTCCCTCCAGTT  
 GTTTTTGCATAGTGATCAGCCTCTCTCTGAGGGTGAAATAATCCGTTTCAGCGGTGTCTGCACGTGCGGGGAGGCTGCA  
 TTATCCACGCGCGAGGCGGTGGTGGCTTCACGCACTGACTGACAGACTGCTTTGATGTGCAACCGACGACGACGACGCGG  
 AACATCATCAGCAGAGCATCATTTTACGCTTTAGCATCAGCTAACTCCTTCGTGTAATTTGCATCAGCGCAGCAACAT  
 CACGCTGACGCATCTGCATGTCATTAATTCGCCGTTTCGCGAGTTTCAGTTCTCTGGCATTTTTGTCCGCTGGGCTTGT  
 TAGGTAATGGCGTTATCAGCGTAATGATTAACAGCCCATGACAGGCAGACGATGATGCGATAACAGAGCGGAGATAAT  
 CGCGGTGACTCTGCTCATACATCAATCTCTCTGACCGTTCCGCCGCTTCTTTGAAATTTTGAATCAGGCTGTGACGCTT  
 ATGCTCGAAGTGAACATAACAGCGCCCGCAGTGAAGCCAGATATTGCTGCAACGCTCGATTGGCTGACGGATATCAC  
 CACGATCAATCATAGGTAAGCGCCACGCTCCTTAATCTGCTGCAATGCCACAGCGTCTGACTTTTCGGAGAGAAGTCT  
 TTCAGGCCAAGCTGCTTGGGTAGGCATCCACCACGGGAAAGAGCTGGTAGCCTCCGCGCCTGTGATTGTAGTTTT  
 TGGGTTAGCGTGAACAAGTTTGGCAGGGTGATCGGAGTAATCAGTAATAAGCTCTCCGCTTACAATGACGTCATAACCAT  
 GATTTCTGGTTTTCTGACGTCGTTATCAGTTCCCTCCGACCACGCCAGCATATCGAGGAAGCCCTTACGTTGATTATTG  
 ATTTCTACCATCTTCTACTCCGCTTTTTTTAGCAGCGAAGCGTTTGATAAGCGAACCAATCGAGTCAGTACCGATGTAGC  
 CGATAAACACGCTCGTTATATAAGCGAGATTGCTACTTAGTCCGCGAAGTCGAGAAGGTCACGAATGAACAGCGGATA  
 ATGGCGCACATCGTTGCGTCGATTACTGTTTTGTAAACGCACCGCCATTATATCTGCCGCGAAGGTACGCCATTGCAAA  
 CGCAAGGATTGCCCGATGCCTTGTCTCTTTGCCGCGAGAATGGCGGCCAACAGGTCATGTTTTCTGGCATCTTCTATGT  
 CTTACCCCAATAAGGGGATTGCTCTATTTAATTAGGAATAAGGTCGATTACTGATAGAACAATCCAGGCTACTGTGT  
 TTAGTAATCAGATTTGTTGCTGACCGATATGCACGGGCAAAACGCGAGGAGTTGTTAGCGCGACCTCTGCCACCGCT  
 TTCACGAAGGTCATGTGTAAAAGCGCGCAGCTAACTATTACTAATGAATTACGACAGACAGTGGCTACGGCTCAGTTT  
 GGGTTGTGCTGTGCTGGGCGCGATGACGCTGTGACGATTGGTGATCCGGTTCTGCTTCCGGTATTCTGCTTAATCA  
 GCACAACGGAAGAGCACTGGCTAACAGGCTCGCGCACTCTTACGATTATCGACTCAATGCTCTTACCTGTTGTGCGC  
 ATATAAAAAATCCGAAACGGTTATGACGGCTCTAATCTTACCTGCGAATGTTTTCGGGATGCTATTTTGCAGACTCT  
 CTGCTTGCATGGTTGGAGTTTCACAGAGTACGTCGAAGTGACCACTAGGCGGAATCGGTAGTAAGCGCGCTCTTTT  
 CATCTCACTACCACAACGAGCGAATTAACCATCCTGTTGAGTCAAATTTACCAATTTTATTCAATAAGTCAATATCATGC  
 CGTTAATATGTTGCCATCCGTGGCAATCATGCTGCTAAACGTGTGACCGCATCAAAATGTTGTCTGCGATTGACTCTTCT  
 TTGTGGCATTGCAACACAGAGCGTCATACAGCGGCTTAACAGTGCGTGACCAAGTGGGTTGGGTAAGGTTTGGGATTAG  
 CATGTCACAGCGGATATGCTGCGCTTGTGGCATCTTGAATAGCCGACGCTTTGCATCTTCCGCACTCTTTCGGA  
 CAACCTCTCCCCACAGCTCTGTTTTGGCAATATCAACCGCAGCGCTGTACCATGGCAATCTCTGCATCTTGGCCCCGCG  
 GTCGCGCACTACGGCAATTAATCCGCATAAGCGAATGTTGCGAGCACTTGCAGTACTTTGCCCTAGTATTTCTTCAAG  
 CTGCCCTTCGAGG

FIG. 5D



FIG. 6A
FIG. 6B
FIG. 6C

FIG. 6

CGCCCCCTGCAGGCAGCTGCGCGCTCGCTCGCTCACTGAGGCCGCCCGGGCAA  
AGCCCCGGGCGTCGGGCGACCTTTGGTCGCCCCGGCCTCAGTGAGCGAGCGAGC  
GCGCAGAGAGGGAGTGGCCAACTCCATCACTAGGGGTTCTGCGGCCGACG  
CGTGGTGGCGGGGTAAACTGGGAAAGTGATGTCGTGTACTGGCTCCGCCCT  
TTTTCCCAGGGTGGGGGAGAACCGTATATAAGTGCAGTAGTCGCCGTGAAC  
GTTCTTTTTCGCAACGGGTTTGCCGCCCCCGGGCAGGTAAGTGCCAGGGAAT  
GTTTGTTCTTAAATACCATCGCTCCAGGGAATGTTTGTTCTTAAATACCATC  
TACTGACACTGACATCCACTTTTCTTTTCTCCACAGGTATCGATCCACCA  
TGCAAATAGAGCTCTCCACCTGCTTCTTTCTGTGCCTTTTGCGATTCTGCTT  
TAGTGCCACCAGAAGATACTACCTGGGTGCAGTGGAAGTGTATGGGACTAT  
ATGCAAAGTGATCTCGGTGAGCTGCCTGTGGACGCAAGATTTCTCCTAGAG  
TGCCAAATCTTTTCCATTCAACACCTCAGTCGTGTACAAAAGACTCTGTT  
TGTAGAATTCACGGATCACCTTTTCAACATCGCTAAGCCAAGGCCACCCTGG  
ATGGGTCTGCTAGGTCCCTACCATCCAGGCTGAGGTTTATGATACAGTGGTCA  
TTACACTTAAGAACATGGCTTCCCATCCTGTGAGTCTTCATGCTGTTGGTGT  
ATCCTACTGGAAAGCTTCTGAGGGAGCTGAATATGATGATCAGACCAGTCAA  
AGGGAGAAAGAAGATGATAAAGTCTTCCCTGGTGGAAGCCATACATATGTCT  
GGCAGGTCTGAAAGAGAATGGTCCAATGGCCTCTGACCCACTGTGCCTTAC  
CTACTCATATCTTTCTCATGTGGACCTGGTAAAAGACTTGAATTCAGGCCCTC  
ATTGGAGCCCTACTAGTATGTAGAGAAGGGAGTCTGGCCAAAGGAAAAGACAC  
AGACCTTGCACAAATTTATACTACTTTTTGCTGTATTTGATGAAGGGAAAAG  
TTGGCACTCAGAAACAAAGAACTCCTTGATGCAGGATAGGGATGCTGCATCT  
GCTCGGGCCTGGCCTAAAATGCACACAGTCAATGGTTATGTAAACAGGTCTC  
TGCCAGGTCTGATTGGATGCCACAGGAAATCAGTCTATTGGCATGTGATTGG  
AATGGGCACCACCTCCTGAAGTGCATCAATATTCCTCGAAGGTACACATTT  
CTTGTGAGGAACCATCGCCAGGCGTCTTGGAAATCTCGCCAAATAACTTTCC  
TTACTGCTCAAACACTCTTGATGGACCTTGGACAGTTTCTACTGTTTTGTCA  
TATCTCTTCCACCAACATGATGGCATGGAAGCTTATGTCAAAGTAGACAGC  
TGTCCAGAGGAACCCCAACTACGAATGAAAAATAATGAAGAAGCGGAAGACT  
ATGATGATGATCTTACTGATTCTGAAATGGATGTGGTCAGGTTTGATGATGA  
CAACTCTCCTTCCTTTATCCAAATTCGCTCAGTTGCCAAGAAGCATCCTAAA

FIG. 6A

ACTTGGGTACATTACATTGCTGCTGAAGAGGAGGACTGGGACTATGCCTCCCT  
TAGTCCTCGCCCCGATGACAGAAGTTATAAAAGTCAATATTTGAACAATGG  
CCCTCAGCGGATTGGTAGGAAGTACAAAAAGTCCGATTTATGGCATAACACA  
GATGAAACCTTTAAGACTCGTGAAGCTATTACAGCATGAATCAGGAATCTTGG  
GACCTTTACTTTTATGGGGAGTTGGAGACACACTGTTGATTATATTTAAGAA  
TCAAGCAAGCAGACCATATAACATCTACCCCTCACGGAATCACTGATGTCCGT  
CCTTTGTATTCAAGGAGATTACCAAAAGGTGTAAACATTTGAAGGATTTTC  
CAATTTCTGCCAGGAGAAATATTCAAATATAAATGGACAGTGAATGCTAGAAGA  
TGGGCCAACTAAATCAGATCCTCGGTGCCTGACCCGCTATTACTCTAGTTTC  
GTTAATATGGAGAGAGATCTAGCTTCAGGACTCATTGGCCCTCTCCTCATCT  
GCTACAAAGAATCTGTAGATCAAAGAGGAAACCAGATAATGTCAGACAAGAG  
GAATGTCATCCTGTTTTCTGTATTTGATGAGAACCGAAGCTGGTACCTCACA  
GAGAATATACAACGCTTTCTCCCAATCCAGCTGGAGTGCAGCTTGAGGATC  
CAGAGTTCCAAGCTCCCAACATCATGCACAGCATCAATGGCTATGTTTTTGA  
TAGTTTGCAGTTGTGAGTTGTTTGCATGAGGTGGCATACTGGTACATTCTA  
AGCATTGGAGCACAGACTGACTTCTTTCTGTCTTCTCTCTGGATATACCT  
TCAAACACAAAATGGTCTATGAAGACACACTCACCTATTCCCATTTCTCAGG  
AGAAACTGTCTTCATGTCTGATGGAAAACCCAGGTCTATGGATTCTGGGGTGC  
CACAACCTCAGACTTTTCGGAACAGAGGCATGACCCGCTTACTGAAGGTTTCTA  
GTTGTGACAAGAACACTGGTGATTATTACGAGGACAGTTATGAAATATTTCT  
AGCATACTTGCTGAGTAAAAACAATGCCATTGAACCAAGAAGCTTCTCCAG  
AATCCACCAGTCTTGAAACGCCATCAACGCGAAATAACTCGTACTACTCTTC  
AGTCAGATCAAGAGGAAATTGACTATGATGATACCATATCAGTTGAAATGAA  
GAAGGAAGATTTTGACATTTATGATGAGGATGAAAAATCAGAGCCCCCGCAGC  
TTTCAAAGAAAAACGACACTATTTTATTGCTGCAGTGGAGAGGCTCTGGG  
ATTATGGGATGAGTAGCTCCACATGTCTTAAGAAACAGGGCTCAGAGTGG  
CAGTGCTCCCTCAGTTCGAAGAAAGTTGTTTTCCAGGAATTTACTGATGGCTCC  
TTTACTCAGCCCTTATACCGTGGAGAACTAAATGAACATTTGGGACTCCTGG  
GGCCATATATAAGAGCAGAAGTTGAAGATAATATCATGGTAACCTTTCAGAAA  
TCAGGCCTCTCGTCCCTATTCTTCTATTCTAGCCTTATTTCTTATGAGGAA  
CATCAGAGGCAAGGAGCAGAACCTAGAAAAAATTTGTCAAGCCTAATGAAA  
GCAAAACTTACTTTTGGAAAAGTGCAACATCATATGGCAACCCACTCAAGATGA  
GTTTGACTGCAAAGCCTGGGCTTATTCTCTGATGTTGACCTGGAAAAAGAT  
GTGCACTCAGGCCTGATTGGACCCCTTCTGGTCTGCCACACTAACACACTGA  
ACCCTGCTCATGGGAGACAAGTGACAGTACAGGAATTTGCTCTGTTTTTCAC  
CATCTTTGATGAGACCAAAAGCTGGTACTTCACTGAAAATATGGAAGAAAC  
TGCAGGGCTCCCTGCAATATCCAGATGGAAGATCCCACTTTTAAAGAGAAAT  
ATCGCTTCCATGCAATCAATGGCTACATAATGGATACACTGCTGCTTAGT  
AATGGCTCAGGATCAAAGGATTGATGGTATCTGCTCAGCATGGGCAGCAAT

FIG. 6B

GAAAACATCCATTCTATTTCATTTTCAGTGGACATGTGTTCACTGTACGAAAAA  
AAGAGGAGTATAAAATGGCACTGTACAATCTCTATCCAGGTGTTTTTGAGAC  
AGTGAAATGTTACCATCCAAAGCTGGAATTTGGCGGGTGGAAATGCCTTATT  
GGCGAGCATCTACATGCTGGGATGAGCACACTTTTCTGGTGTACAGCAATA  
AGTGTCACTCCCCGGAATGGCTTCTGGACACATTAGAGATTTTCAGAT  
TACAGCTTCAGGACAATATGGACAGTGGGCCCCAAAGCTGGCCAGACTTCAT  
TATTCGGATCAATCAATGCCTGGAGACCAAGAGCCCTTTCTTGGATCA  
AGGTGGATCTGTTGGCACCATGATTATTCACGGCATCAAGACCCAGGTGC  
CCGTCAGAAGTTCTCCAGCCTCTACATCTCTCAGTTTATCATCATGTATAGT  
CTTGATGGGAAGAAGTGGCAGACTTATCGAGGAAATCCACTGGAACCTTAA  
TGGTCTTCTTTGGCAATGTGGATTCTCTGGGATAAAACACAATATTTTAA  
CCCTCCAATTATGCTCGATACATCCGTTTGCACCCAACTCATTATAGCATT  
CGCAGCACTCTTCGCATGGAGTTGATGGGCTGTGATTTAAATAGTTGCAGCA  
TGCCATTGGGAATGGAGAGTAAAGCAATATCAGATGCACAGATTACTGCTTC  
ATCTACTTTACCAATATGTTTGCCACCTGGTCTCCTTCAAAGCTCGACTT  
CACCTCCAAGGGAGGAGTAATGCCTGGAGACCTCAGGTGAATAATCCAAAAG  
AGTGGCTGCAAGTGGACTTCCAGAAGACAATGAAAGTCACAGGAGTAACTAC  
TCAGGGAGTAAATCTCTGCTTACCAGCATGTATGTGAAGGAGTTCCTCATC  
TCCAGCAGTCAAGATGGCCATCAGTGGACTCTCTTTTTTCAGAATGGCAAAG  
TAAAGGTTTTTCAGGGAAATCAAGACTCCTTCACACCTGTGGTGAACCTCTCT  
AGACCCACCGTTACTGACTCGCTACCTTCGAATTCACCCCCAGAGTTGGGTG  
CACCAGATTGCCCTGAGGATGGAGGTTCTGGGCTGCGAGGCACAGACCTCT  
ACTGACTCGAGCCTAATAAAGGAAATTTATTTTCATTGCAATAGTGTGTTGG  
TTTTTTGTGTGCGCCGCGAGGAACCCCTAGTGATGGAGTTGGCCACTCCCTC  
TCTGCGCGCTCGCTCGCTCACTGAGGCCGGGCGACCAAAGTTCGCCCCGAGC  
CCGGGCTTTGCCCCGGCGGCCTCAGTGAGCGAGCGAGCGCGCAGCTGCCTGC  
AGGACAT

FIG. 6C

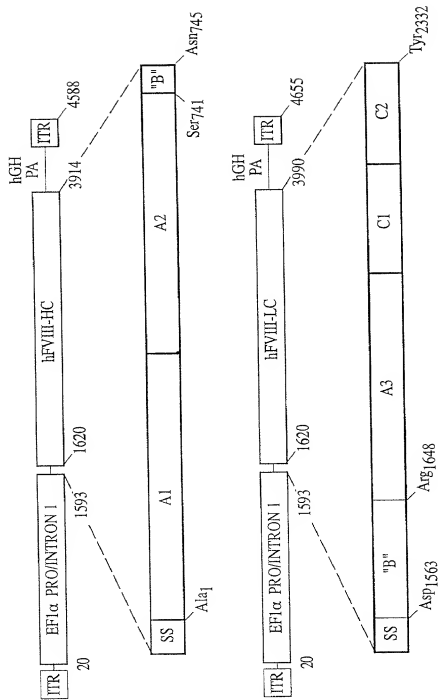
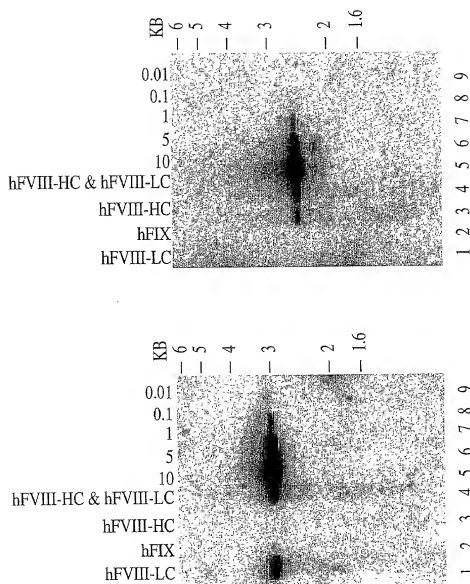


FIG. 7



FIG. 8



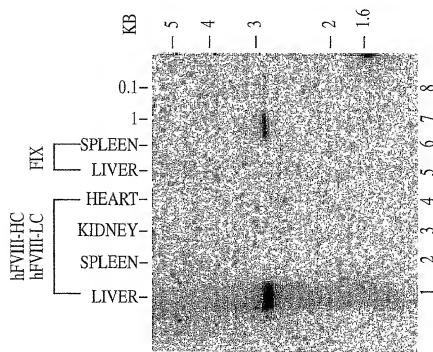


FIG. 10A

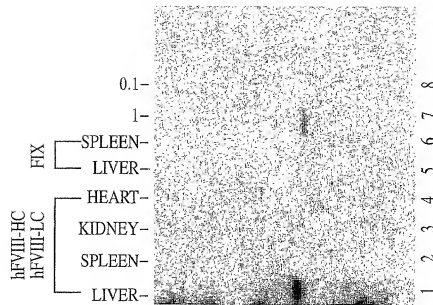


FIG. 10B

FIG. 11A